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TITLE: HIGH STRENGTH CONCRETE

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INVENTOR-INFORMATION:

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ASSIGNEE-INFORMATION:

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ABSTRACT:

PROBLEM TO BE SOLVED: To provide a high strength concrete having not only small self - shrinkage but also small brittleness coefficient (compression strength/tensile strength).

SOLUTION: This high strength concrete contains a low-heat portland cement, a high-performance water reducing agent or a high performance AE water reducing agent, a fine aggregate and a coarse aggregate, and has ≤ 40 wt.% ratio of water to the cement and ≥ 60 N/mm² compression strength. A shrinkage-diminishing agent and/or an expanding material is also added to the high strength concrete. Preferably, the ratio of the shrinkage-diminishing agent to the cement is ≤ 2.0 wt.%, and the ratio of the expanding material to the cement is ≤ 10 wt.%.

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